

Studying Populations Notes Review

Name: _____ Date: _____

Group: _____ Section: _____



- 1) Identify and describe four methods of determining population size.

- 2) Which method would you use to determine the number of mushrooms growing on the floor of a large forest? Give reasons why.

- 3) Name two ways organisms join a population and two ways organisms leave a population.

- 4) Suppose a population of 100 mice has produced 600 young. If 200 mice died, how many mice are in the population now? (Assume that no mice have moved into or out of the population for other reasons.)

- 5) Name three limiting factors for populations. Choose one and describe how it limits population growth.

Performance Task

Part 1: Populations of Beans in a jar

You will have a container of dried beans. Your goal is to determine the population size of the beans but you cannot remove the beans to count them. You may use any tool in your bin, but you cannot remove any beans from the container. You will have two minutes to figure out your bean population.

Prediction of bean population: _____

Actual bean population: _____

Part 2: Birth and Death rates

Suppose 1,600 snow geese died in the same year that 1,400 were born. What would the growth rate be for that year?

If the answer is a positive growth rate, what does that mean?

If the answer is a negative growth rate, what does that mean?